UNITED STATES PATENT AND TRADEMARK OFFICE

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Office Action Summary	10/653,236	SEO ET AL.
	Examiner	Art Unit	
	Michael Choi	2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>*29 April 2008*</u>.
2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.
3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *4, 7, 8, 10, 13-18, 20-23, 25-29, 31-34 and 36-40* is/are pending in the application.
    4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5)☐ Claim(s) _____ is/are allowed.
6)☒ Claim(s) *4, 7, 8, 10, 13-18, 20-23, 25-29, 31-34 and 36-40* is/are rejected.
7)☐ Claim(s) _____ is/are objected to.
8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.
10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.
    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    a)☐ All   b)☐ Some * c)☐ None of:
       1.☐ Certified copies of the priority documents have been received.
       2.☐ Certified copies of the priority documents have been received in Application No. _____.
       3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1.   A request for continued examination under 37 CFR 1.114, including the fee set forth in

37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible

for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has

been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37

CFR 1.114. Applicant's submission filed on 4/29/08 has been entered.

Double Patenting

1.   The nonstatutory double patenting rejection is based on a judicially created doctrine
grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or
improper timewise extension of the "right to exclude" granted by a patent and to prevent
possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting
rejection is appropriate where the conflicting claims are not identical, but at least one examined
application claim is not patentably distinct from the reference claim(s) because the examined
application claim is either anticipated by, or would have been obvious over, the reference
claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re
Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225
USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re
Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163
USPQ 644 (CCPA 1969).
        A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be
used to overcome an actual or provisional rejection based on a nonstatutory double patenting
ground provided the conflicting application or patent either is shown to be commonly owned with
this application, or claims an invention made as a result of activities undertaken within the scope
of a joint research agreement.
        Effective January 1, 1994, a registered attorney or agent of record may sign a terminal
disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2.   Claims 1 and 15-18 are provisionally rejected on the ground of nonstatutory double

patenting over claims 1, 10, 13 and 24-27 of copending Application No. 10/766,211. This is a

provisional double patenting rejection since the conflicting claims have not yet been patented.

Regarding claim 1 of the instant application, claims 1, 10 and 13 of amended '211 recite a computer readable medium having a data structure for managing reproduction duration of still pictures. The instant application recites a computer readable medium having a data structure for managing reproduction of a slideshow of still images recorded on the computer readable medium, comprising: a clip information area storing at least one clip information file each clip information file being associated with at least one stream file stored in a data area the clip information file providing a map for the associated stream file each map mapping presentation time information to address information for the associated stream file; and a playlist area storing a playlist, the playlist file referencing the clip information file and including navigation information for reproducing still images and audio data together as a slideshow, and the playlist area being separate from the clip information area.

Since the instant application is narrower in scope than the aforementioned co-pending claims, all the limitations of the instant application are thereby rejected under the grounds of obviousness type double patenting rejection.

Regarding claim 15 of the instant application, claim 25 of amended '211 recite a computer readable medium having a data structure for managing reproduction duration of still pictures. The instant application recites a method of reproducing a slideshow, comprising: reproducing (a playlist file and at least one clip information file referenced by the playlist file from a recording medium, each clip information file being associated with at least one stream file and providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file, and the playlist area being separate from the clip information area; and reproducing a slideshow of still images and audio data from the

recording medium based on navigation information included in the reproduced playlist file and the reproduced clip information file.

Since the instant application is narrower in scope than the aforementioned co-pending claim, all the limitations of the instant application are thereby rejected under the grounds of obviousness type double patenting rejection.

Regarding claim 16 of the instant application, claim 27 of amended '211 recite a computer readable medium having a data structure for managing reproduction duration of still pictures. The instant application recites a method of reproducing a slideshow, comprising: reproducing a playlist file and at least one clip information file referenced by the playlist file from a recording medium, each clip information file being associated with at least one stream file and providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file, and the playlist area being separate from the clip information area; and reproducing a slideshow of still images and audio data from the recording medium based on navigation information included in the reproduced playlist file and the reproduced clip information file.

Since the instant application is narrower in scope than the aforementioned co-pending claim, all the limitations of the instant application are thereby rejected under the grounds of obviousness type double patenting rejection.

Regarding claim 17 of the instant application, claim 24 of amended '211 recite a computer readable medium having a data structure for managing reproduction duration of still pictures. The instant application recites a method of recording a data structure for managing reproduction of a slideshow of still images recorded on a recording medium, comprising:

recording at least one clip information file in a clip information file area of the recording medium, each clip information file being associated with at least one stream file stored in a data area of the recording medium and providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file; and recording a playlist file in a playlist area of the recording medium, the playlist file referencing the clip information file and including navigation information for reproducing still images and audio data together as a slideshow, and the playlist area being separate from the clip information area.

Since the instant application is narrower in scope than the aforementioned co-pending claim, all the limitations of the instant application are thereby rejected under the grounds of obviousness type double patenting rejection.

Regarding claim 18 of the instant application, claim 24 of amended '211 recite a computer readable medium having a data structure for managing reproduction duration of still pictures. The instant application recites an apparatus for recording a data structure for managing reproduction of a slideshow of still images recorded on a recording medium, comprising: an optical recording device configured to record data on the recording medium; an encoder for encoding at least multiple reproduction path video data; and a controller configured to control the optical recording device to record at least one clip information file in a clip information file area of the recording medium, each clip information file being associated with at least one stream file stored in a data area of the recording medium and providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file; and the controller configured to control the optical recording device to record a playlist file in a playlist area of the recording medium, the playlist file

referencing the clip information file and including navigation information for reproducing still images and audio data together as a slideshow, and the playlist area being separate from the clip information area.

3. Claims 2-4, 7, 8, 10, 13, 14, 20-23, 25-29, 31-34 and 36-40 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 10, 13 and 24-27 of copending Application No. 10/766,211 in view of Ando et al. (US 2001/0046371 A1).

This is a provisional obviousness-type double patenting rejection.

Regarding claim 2 of the instant application, claims 1, 10 and 13 of '211 teach the limitations of the elementary claim but do not explicitly teach the dependency of claim 2. Ando teaches wherein the navigation information links the still images and the audio data such that presentation of the still images is synchronized with reproduction of the audio data (Fig. 7 – audio tracks associated with a still picture).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine '211 with Ando so as to allow an easy correlation between audio and image data so when reproduced to allow associated images to be displayed with accorded audio.

Regarding claim 3 of the instant application, claims 1, 10 and 13 of '211 teach the limitations of the elementary claim but do not explicitly teach the dependency of claim 3. Ando teaches wherein the navigation information links the still images and the audio data (in at least

Figs. 7, 8, 10-13 – link with original track) such that reproduction of the audio data occurs independently of presentation of the still images (Figs. 15, S5 and 16, S11).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine '211 with Ando so as to allow an easy correlation between audio and image data so when reproduced to allow user to define output of either audio or images separately.

Regarding claim 4 of the instant application, claims 1, 8-12 and 13 of '211 teach the limitations of the elementary claim but do not explicitly teach the dependency of claim 4. Ando teaches wherein the navigation information indicates a duration to display each still image (Figs. 6A, 6B) during reproduction of the slideshow (Fig. 43 – duration).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine '211 with Ando so as to allow user to define output of images for specified time.

Regarding claim 7 of the instant application, claims 1, 8-12 and 13 teach the limitations of the elementary claim but do not explicitly teach the dependency of claim 7. Ando teaches wherein the navigation information indicates whether progress of the slideshow from one still image to another still image is controlled by user input (Page 6, Paragraphs [0150+]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine '211 with Ando so as to allow user to define output of images for specified time for facilitation of viewing.

Regarding claim 8 of the instant application, claims 1, 10 and 13 of '211 teach the limitations of the elementary claim but do not explicitly teach the dependency of claim 8. Ando

teaches wherein the navigation information provides (Page 5, Paragraph [0104]; Page 6,

Paragraph [0150]) information for skipping to one of a next and a previous still image from

reproduction of at least one still image when the navigation information indicates (Fig. 10 –

various still picture entry points concerning the various cell information having still pictures as

grouped in a VOB) that progress of the slideshow from one still image to another still image

(Figs. 6A, 6B) is controlled by user input (Page 5, Paragraph [0104] – user defined program

chain).

It would have been obvious to one of ordinary skill in the art at the time the invention was

made to combine '211 with Ando so as to allow user to define output of images for specified

time for facilitation of viewing.

Regarding claim 10 of the instant application, claims 1, 10 and 13 of '211 teach the

limitations of the elementary claim but do not explicitly teach the dependency of claim 10. Ando

teaches wherein one of a playitem field and a sub-playitem field in the playlist file provides

navigation information for the still images (Fig. 10) and a different one of a playitem field and a

sub-playitem field in the playlist file provides navigation information for the audio data (Fig. 1 –

having audio track no. 1 with cell information as further clarified through illustration of program

chain, Figs. 7, 8).

It would have been obvious to one of ordinary skill in the art at the time the invention was

made to combine '211 with Ando so as to allow user to define output of images for specified

time and place or chapter for facilitation of viewing.

Regarding claim 13 of the instant application, claims 1, 10 and 13 of '211 teach the

limitations of the elementary claim but do not explicitly teach the dependency of claim 13. Ando

teaches wherein the playlist file includes mark information, the mark information includes a mark

pointing to a still image (in at least Fig. 10 – still picture entry point).

It would have been obvious to one of ordinary skill in the art at the time the invention was

made to combine '211 with Ando so as to allow user to define output of images for specified

time and place or chapter for facilitation of viewing.

Regarding claim 14 of the instant application, claims 1, 10 and 13 of '211 teach the

limitations of the elementary claim but do not explicitly teach the dependency of claim 14. Ando

teaches wherein: the audio data is stored as a separate stream file from a stream file containing

the still images (in at least Figs. 1, 2, 3, 4 – still picture object recording area and stream

separate from audio object recording area and stream); and wherein the playlist file links the

separate stream file and the stream file containing the still images(in at least Figs. 7, 8, 10, 12,

13 - still pictures and entry points for cell information as accorded to audio tracks per program

chain).

It would have been obvious to one of ordinary skill in the art at the time the invention was

made to combine '211 with Ando so as to allow an easy correlation between audio and image

data so when reproduced to allow associated images to be displayed with accorded audio.

Claims 20, 26, 31 and 37 are rejected under the same grounds as claim 7.

Claims 21, 27, 32 and 38 are rejected under the same grounds as claim 8.

Claims 22, 29, 33 and 40 are rejected under the same grounds as claim 13.

Claims 23 and 34 are rejected under the same grounds as claim 2.

Claims 25 and 36 are rejected under the same grounds as claim 4.

Claims 28 and 39 are rejected under the same grounds as claim 10.

4.   Claims 15 and 17 are provisionally rejected on the ground of nonstatutory double patenting over claims 7 and 6, respectively, of copending Application No. 10/716,629. This is a provisional double patenting rejection since the conflicting claims have not yet been patented.

Regarding claim 15 of the instant application, claim 25 of amended '629 recite a computer readable medium having a data structure for managing reproduction duration of still pictures. The instant application recites a method of reproducing a slideshow, comprising: reproducing (a playlist file and at least one clip information file referenced by the playlist file from a recording medium, each clip information file being associated with at least one stream file and providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file, and the playlist area being separate from the clip information area; and reproducing a slideshow of still images and audio data from the recording medium based on navigation information included in the reproduced playlist file and the reproduced clip information file.

Since the instant application is narrower in scope than the aforementioned co-pending claim, all the limitations of the instant application are thereby rejected under the grounds of obviousness type double patenting rejection.

Regarding claim 17 of the instant application, claim 24 of amended '629 recite a computer readable medium having a data structure for managing reproduction duration of still pictures. The instant application recites a method of recording a data structure for managing reproduction of a slideshow of still images recorded on a recording medium, comprising: recording at least one clip information file in a clip information file area of the recording medium,

each clip information file being associated with at least one stream file stored in a data area of the recording medium and providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file; and recording a playlist file in a playlist area of the recording medium, the playlist file referencing the clip information file and including navigation information for reproducing still images and audio data together as a slideshow.

Since the instant application is narrower in scope than the aforementioned co-pending claim, all the limitations of the instant application are thereby rejected under the grounds of obviousness type double patenting rejection.

5.   Claims 1-4, 7, 8, 10, 13, 14, 20-23, 25-29, 31-34 and 36-40 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 2 and 6-9 of copending Application No. 10/716,629 in view of Ando et al. (US 2001/0046371 A1).

This is a provisional obviousness-type double patenting rejection.

Regarding claim 1 of the instant application, claim 1 of '629 teaches the limitations of the elementary claim but does not explicitly teach the playlist storing area. Ando teaches a playlist area storing a playlist file (Fig. 1 – audio/video recording area, 121, containing program chains), the playlist file referencing the clip information file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain) and including navigation information (Page 6, Paragraph [0150]) for reproducing (at least Page 3, Paragraph [0080]) still images and audio data together as a slideshow (Figs. 6A, 6B). Ando fails

to explicitly teach the playlist area being separate from the clip information area. Seo teaches the playlist area being separate from the clip information area (in at least Fig. 2 – playlist separate directory than clips and stream; Figs. 3, 10 – stream having data separate from database having playlist information)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to having a playlist area separate from media to allocate maximum space to hold and store the media for added video.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine '629 with Ando so as to align with standards as is such conventionality in the art of a computer readable medium such as to hold information to be reproduced.

Regarding claim 2 of the instant application, claims 1 and 2 of '629 teach the limitations of the elementary claim.

Regarding claim 3 of the instant application, claim 1 of '629 teaches the limitations of the elementary claim but does not explicitly teach the dependency of claim 3. Ando teaches wherein the navigation information links the still images and the audio data (in at least Figs. 7, 8, 10-13 – link with original track) such that reproduction of the audio data occurs independently of presentation of the still images (Figs. 15, S5 and 16, S11).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine '629 with Ando so as to allow an easy correlation between audio and image data so when reproduced to allow user to define output of either audio or images separately.

Regarding claim 4 of the instant application, claim 1 of '629 teaches the limitations of the elementary claim but does not explicitly teach the dependency of claim 4. Ando teaches wherein the navigation information indicates a duration to display each still image (Figs. 6A, 6B) during reproduction of the slideshow (Fig. 43 – duration).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine '629 with Ando so as to allow user to define output of images for specified time.

Regarding claim 7 of the instant application, claim 1 of '629 teaches the limitations of the elementary claim but does not explicitly teach the dependency of claim 7. Ando teaches wherein the navigation information indicates whether progress of the slideshow from one still image to another still image is controlled by user input (Page 6, Paragraphs [0150+]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine '629 with Ando so as to allow user to define output of images for specified time for facilitation of viewing.

Regarding claim 8 of the instant application, claim 1 of '629 teaches the limitations of the elementary claim but does not explicitly teach the dependency of claim 8. Ando teaches wherein the navigation information provides (Page 5, Paragraph [0104]; Page 6, Paragraph [0150]) information for skipping to one of a next and a previous still image from reproduction of at least one still image when the navigation information indicates (Fig. 10 – various still picture entry points concerning the various cell information having still pictures as grouped in a VOB) that progress of the slideshow from one still image to another still image (Figs. 6A, 6B) is controlled by user input (Page 5, Paragraph [0104] – user defined program chain).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine '629 with Ando so as to allow user to define output of images for specified time for facilitation of viewing.

Regarding claim 10 of the instant application, claim 1 of '629 teaches the limitations of the elementary claim but does not explicitly teach the dependency of claim 10. Ando teaches wherein one of a playitem field and a sub-playitem field in the playlist file provides navigation information for the still images (Fig. 10) and a different one of a playitem field and a sub-playitem field in the playlist file provides navigation information for the audio data (Fig. 1 – having audio track no. 1 with cell information as further clarified through illustration of program chain, Figs. 7, 8).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine '629 with Ando so as to allow user to define output of images for specified time and place or chapter for facilitation of viewing.

Regarding claim 13 of the instant application, claim 1 of '629 teaches the limitations of the elementary claim but does not explicitly teach the dependency of claim 13. Ando teaches wherein the playlist file includes mark information, the mark information includes a mark pointing to a still image (in at least Fig. 10 – still picture entry point).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine '629 with Ando so as to allow user to define output of images for specified time and place or chapter for facilitation of viewing.

Regarding claim 14 of the instant application, claim 1 of '629 teaches the limitations of

the elementary claim but does not explicitly teach the dependency of claim 14. Ando teaches

wherein: the audio data is stored as a separate stream file from a stream file containing the still

images (in at least Figs. 1, 2, 3, 4 – still picture object recording area and stream separate from

audio object recording area and stream); and wherein the playlist file links the separate stream

file and the stream file containing the still images(in at least Figs. 7, 8, 10, 12, 13 - still pictures

and entry points for cell information as accorded to audio tracks per program chain).

It would have been obvious to one of ordinary skill in the art at the time the invention was

made to combine '629 with Ando so as to allow an easy correlation between audio and image

data so when reproduced to allow associated images to be displayed with accorded audio.

Regarding claim 16 of the instant application, claim 9 of '629 teaches the limitations of

the elementary claim but does not explicitly teach the controller configured to control the optical

reproducing device to reproduce a slideshow. Ando teaches the controller configured to control

the optical reproducing device to reproduce a slideshow (Figs. 6A, 6B) of still images and audio

data from the recording medium based on navigation information included in the reproduced

playlist file and the reproduced clip information file (Fig. 6 – slideshow reproduction; Fig. 14 – D-

PRO, 410; Page 11, Paragraphs [0216+]; Fig. 7 – still pictures with associated audio data as

per program chain). Ando fails to explicitly teach stored in a playlist area and clip area, and the

playlist area being separate from the clip information area. Seo teaches in a playlist area and

clip area (in at least Fig. 2 – playlist separate directory than clips and stream; Figs. 3, 10 –

stream having data separate from database having playlist information), the playlist area being

separate from the clip information area (in at least Fig. 2 – playlist separate directory than clips

and stream; Figs. 3, 10 – stream having data separate from database having playlist information)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to having a playlist area separate from media to allocate maximum space to hold and store the media for added video.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine '629 with Ando so as to align with standards as is such conventionality in the art of a computer readable medium such as to hold information to be reproduced.

Regarding claim 18 of the instant application, claim 8 of '629 teaches the limitations of the elementary claim but does not explicitly teach the encoder and a controller configured to control the optical reproducing device to record a playlist file. Ando teaches an encoder for encoding at least multiple reproduction path video data (Fig. 14 – encoder unit, 401); and a controller configured to control the optical recording device to record a playlist file (Page 11, Paragraphs [0214+]) in a playlist area of the recording medium (Fig. 1 – audio/video recording area, 121, containing program chains), the playlist file referencing the clip information file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain) and including navigation information (Page 6, Paragraph [0150]) for reproducing (at least Page 3, Paragraph [0080]) still images and audio data together as a slideshow (Figs. 6A, 6B; 7). Ando fails to explicitly teach the playlist area being separate from the clip information area. Seo teaches the playlist area being separate from the clip information area (in at least Fig. 2 – playlist separate directory than clips and stream; Figs. 3, 10 – stream having data separate from database having playlist information)

It would have been obvious to one of ordinary skill in the art at the time the invention was

made to having a playlist area separate from media to allocate maximum space to hold and

store the media for added video.

It would have been obvious to one of ordinary skill in the art at the time the invention was

made to combine '629 with Ando so as to align with standards as is such conventionality in the

art of a computer readable medium such as to hold information to be reproduced.

Claims 20, 26, 31 and 37 are rejected under the same grounds as claim 7.

Claims 21, 27, 32 and 38 are rejected under the same grounds as claim 8.

Claims 22, 29, 33 and 40 are rejected under the same grounds as claim 13.

Claims 23 and 34 are rejected under the same grounds as claim 2.

Claims 25 and 36 are rejected under the same grounds as claim 4.

Claims 28 and 39 are rejected under the same grounds as claim 10.

Claim Rejections - 35 USC § 103

6.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

7.   Claims 1-4, 7, 8, 10, 13-18, 20-23, 25-29, 31-34 and 36-40 are rejected under 35 U.S.C.

103(a) as being unpatentable over Ando et al. (US 2001/0046371 A1) in view of Seo et al. (US

2003/0235406 A1).

Regarding Claim 1, Ando et al. (hereinafter Ando) teach a computer readable medium having a data structure for managing reproduction of a slideshow of still images recorded on the computer readable medium, comprising:

- A clip information area (Fig.1(b) - data area having audio/video related information recording area) storing at least one clip information file (in at least Figs. 7, 8, 10, 12, 13 - still pictures), each clip information file being associated with at least one stream file stored in a data area (in at least Figs. 7, 8, 10, 12, 13 - still pictures as per audio presentation of associated audio tracks), the clip information file providing a map for the associated stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each map mapping presentation time information to address information for the associated stream file (Figs. 32, 33 – start addresses and presentation start times as reproduced by program chains); and

- a playlist area storing a playlist file (Fig. 1 – audio/video recording area, 121, containing program chains), the playlist file referencing the clip information file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain) and including navigation information (Page 6, Paragraph [0150]) for reproducing (at least Page 3, Paragraph [0080]) still images and audio data together as a slideshow (Figs. 6A, 6B).

Ando fails to explicitly teach the playlist area being separate from the clip information area. Seo teaches the playlist area being separate from the clip information area (in at least Fig. 2 – playlist separate directory than clips and stream; Figs. 3, 10 – stream having data separate from database having playlist information)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to having a playlist area separate from media to allocate maximum space to hold and store the media for added video.

Regarding Claim 2, Ando teaches the computer readable medium of claim 1, wherein the navigation information links the still images and the audio data (in at least Figs. 7, 8, 10-13 – link with original track) such that presentation of the still images is synchronized with reproduction of the audio data (Fig. 7 – audio tracks associated with a still picture).

Regarding Claim 3, Ando teaches the computer readable medium of claim 1, wherein the navigation information links the still images and the audio data (in at least Figs. 7, 8, 10-13 – link with original track) such that reproduction of the audio data occurs independently of presentation of the still images (Figs. 15, S5 and 16, S11).

Regarding Claim 4, Ando teaches the computer readable medium of claim 1, wherein the navigation information indicates a duration to display each still image (Figs. 6A, 6B) during reproduction of the slideshow (Fig. 43 – duration).

Regarding Claim 7, Ando teaches the computer readable medium of claim 1, wherein the navigation information indicates whether progress of the slideshow from one still image to another still image is controlled by user input (Page 6, Paragraphs [0150+]).

Regarding Claim 8, Ando teaches the computer readable medium of claim 1, wherein the navigation information provides (Page 5, Paragraph [0104]; Page 6, Paragraph [0150])

information for skipping to one of a next and a previous still image from reproduction of at least

one still image when the navigation information indicates (Fig. 10 – various still picture entry

points concerning the various cell information having still pictures as grouped in a VOB) that

progress of the slideshow from one still image to another still image (Figs. 6A, 6B) is controlled

by user input (Page 5, Paragraph [0104] – user defined program chain).

Regarding Claim 10, Ando teaches the computer readable medium of claim 1, wherein

one of a playitem field and a sub-playitem field in the playlist file provides navigation information

for the still images (Fig. 10) and a different one of a playitem field and a sub-playitem field in the

playlist file provides navigation information for the audio data (Fig. 1 – having audio track no. 1

with cell information as further clarified through illustration of program chain, Figs. 7, 8).

Regarding Claim 13, Ando teaches the computer readable medium of claim 1, wherein

the playlist file includes mark information, the mark information includes a mark pointing to a still

image (in at least Fig. 10 – still picture entry point).

Regarding Claim 14, Ando teaches the computer readable medium of claim 1, wherein:

the audio data is stored as a separate stream file from a stream file containing the still images

(in at least Figs. 1, 2, 3, 4 – still picture object recording area and stream separate from audio

object recording area and stream); and wherein the playlist file links the separate stream file and

the stream file containing the still images(in at least Figs. 7, 8, 10, 12, 13 - still pictures and

entry points for cell information as accorded to audio tracks per program chain).

Regarding Claim 15, Ando teaches a method of reproducing a slideshow, comprising:

- reproducing (Fig. 7 – reproduction of disc) a playlist file and at least one clip information file referenced by the playlist file from a recording medium (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each clip information file being associated with at least one stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures as per audio presentation of associated audio tracks) and providing a map for the associated stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each map mapping presentation time information to address information for the associated stream file (Figs. 32, 33 – start addresses and presentation start times as reproduced by program chains); and

- reproducing (at least Page 3, Paragraph [0080]; Page 11, Paragraphs [0214+]) a slideshow of still images and audio data (Figs. 6A, 6B) from the recording medium (Fig. 1 – audio/video recording area, 121, containing program chains) based on navigation information (Page 6, Paragraph [0150]) included in the reproduced playlist file (at least Page 3, Paragraph [0080]) recorded on the recording medium (Page 11, Paragraphs [0214+]) and the reproduced clip information file (in at least Fig. 7 – reproduction of disc with still images to output, Fig. 14).

Ando fails to explicitly teach stored in a playlist area and clip area, and the playlist area being separate from the clip information area. Seo teaches in a playlist area and clip area (in at least Fig. 2 – playlist separate directory than clips and stream; Figs. 3, 10 – stream having data separate from database having playlist information), the playlist area being separate from the clip information area (in at least Fig. 2 – playlist separate directory than clips and stream; Figs. 3, 10 – stream having data separate from database having playlist information)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to having a playlist area separate from media to allocate maximum space to hold and store the media for added video.

Regarding Claim 16, Ando teaches an apparatus for reproducing a slideshow, comprising:

- a pick up device configured to reproduce data recorded on a recording medium (Fig. 14 – disc drive, 409);

- a controller configured to control pick up to reproduce (Fig. 7 – reproduction of disc) a playlist file and at least one clip information file referenced by the playlist file from the recording medium (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each clip information file being associated with at least one stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures as per audio presentation of associated audio tracks) and providing a map for the associated stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each map mapping presentation time information to address information for the associated stream file (Figs. 32, 33 – start addresses and presentation start times as reproduced by program chains); and

- the controller configured to control the pick up to reproduce a slideshow (Figs. 6A, 6B) of still images and audio data from the recording medium based on navigation information included in the reproduced playlist file and the reproduced clip information file (Fig. 6 – slideshow reproduction; Fig. 14 – D-PRO, 410; Page 11, Paragraphs [0216+]; Fig. 7 – still pictures with associated audio data as per program chain).

Ando fails to explicitly teach stored in a playlist area and clip area, and the playlist area being separate from the clip information area. Seo teaches in a playlist area and clip area (in at least Fig. 2 – playlist separate directory than clips and stream; Figs. 3, 10 – stream having data separate from database having playlist information), the playlist area being separate from the clip information area (in at least Fig. 2 – playlist separate directory than clips and stream; Figs. 3, 10 – stream having data separate from database having playlist information)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to having a playlist area separate from media to allocate maximum space to hold and store the media for added video.

Regarding Claim 17, Ando teaches a method of recording a data structure for managing reproduction of a slideshow of still images recorded on a recording medium, comprising:

- recording (Abstract) at least one clip information file in a clip information file area of the recording medium (Fig.1(b) - data area having audio/video related information recording area), each clip information file being associated with at least one stream file stored in a data area of the recording medium (in at least Figs. 7, 8, 10, 12, 13 - still pictures as per audio presentation of associated audio tracks) and providing a map for the associated stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each map mapping presentation time information to address information for the associated stream file (Figs. 32, 33 – start addresses and presentation start times as reproduced by program chains); and

- recording a playlist file (Page 11, Paragraphs [0214+]) in a playlist area of the recording medium (Fig. 1 – audio/video recording area, 121, containing program chains), the playlist file referencing the clip information file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain) and including navigation information (Page 6, Paragraph [0150]) for reproducing (at least Page 3, Paragraph [0080]) still images and audio data together as a slideshow (Figs. 6A, 6B; 7).

Ando fails to explicitly teach the playlist area being separate from the clip information area. Seo teaches the playlist area being separate from the clip information area (in at least Fig. 2 – playlist separate directory than clips and stream; Figs. 3, 10 – stream having data separate from database having playlist information)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to having a playlist area separate from media to allocate maximum space to hold and store the media for added video.

Regarding Claim 18, Ando teaches an apparatus for recording a data structure for managing reproduction of a slideshow of still images recorded on a recording medium, comprising:

- pick up configured to record data on the recording medium (Fig. 14 – disc drive, 409);

- an encoder for encoding at least multiple reproduction path video data (Fig. 14 – encoder unit, 401); and

- a controller configured to control pick up to record (Abstract) at least one clip information file in a clip information file area of the recording medium (Fig.1(b) - data area having audio/video related information recording area), each clip information file being

associated with at least one stream file stored in a data area of the recording medium (in at least Figs. 7, 8, 10, 12, 13 - still pictures as per audio presentation of associated audio tracks) and providing a map for the associated stream file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain), each map mapping presentation time information to address information for the associated stream file (Figs. 32, 33 – start addresses and presentation start times as reproduced by program chains); and

- the controller configured to control pick up to record a playlist file (Page 11, Paragraphs [0214+]) in a playlist area of the recording medium (Fig. 1 – audio/video recording area, 121, containing program chains), the playlist file referencing the clip information file (in at least Figs. 7, 8, 10, 12, 13 - still pictures and entry points for cell information as accorded to audio tracks per program chain) and including navigation information (Page 6, Paragraph [0150]) for reproducing (at least Page 3, Paragraph [0080]) still images and audio data together as a slideshow (Figs. 6A, 6B; 7).

Ando fails to explicitly teach the playlist area being separate from the clip information area. Seo teaches the playlist area being separate from the clip information area (in at least Fig. 2 – playlist separate directory than clips and stream; Figs. 3, 10 – stream having data separate from database having playlist information)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to having a playlist area separate from media to allocate maximum space to hold and store the media for added video.

Claims 20, 26, 31 and 37 are rejected under the same grounds as claim 7.

Claims 21, 27, 32 and 38 are rejected under the same grounds as claim 8.

Claims 22, 29, 33 and 40 are rejected under the same grounds as claim 13.

Claims 23 and 34 are rejected under the same grounds as claim 2.

Claims 25 and 36 are rejected under the same grounds as claim 4.

Claims 28 and 39 are rejected under the same grounds as claim 10.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Choi whose telephone number is (571) 272-9594. The examiner can normally be reached on Monday - Friday 9:00AM - 5:30PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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